

## CLAIMS

1. A biosensor, comprising: an insulating base plate, an electrode system that is provided on said base plate and has at least a working electrode and a counter electrode, a cover member that is combined with said base plate to define a sample solution supply pathway for leading a sample solution from a sample supply unit to said electrode system, a reaction reagent system including at least an oxidation-reduction enzyme and an electron mediator, and a filter disposed between said electrode system and said sample supply unit in said sample solution supply pathway, said biosensor having a space that encircles surface of said filter in an area from one end of said filter close to said sample supply unit to the other end of said filter close to said electrode system.

2. A biosensor in accordance with claim 1, wherein said cover member is disposed above said base plate, and said sample solution supply pathway starts from said sample supply unit provided on said base plate and is formed along said cover member and said base plate.

3. A biosensor in accordance with claim 1, wherein said sample supply unit is located on a side of said electrode system.

4. A biosensor in accordance with claim 3, wherein said space has a width of 0.5 mm to 5.0 mm.

5. A biosensor in accordance with claim 4,  
wherein said space has a width of 1.0 mm to 3.0 mm.

6. A biosensor in accordance with claim 1,  
wherein said sample solution supply pathway is disposed in  
a direction of gravity from said sample supply unit  
provided on said cover member.

7. A biosensor in accordance with claim 1,  
wherein said sample supply unit is located above said  
electrode system.

8. A biosensor in accordance with claim 6 or 7,  
wherein width of said space is not less than 100  $\mu\text{m}$  and  
smaller than thickness of said filter.

9. A biosensor in accordance with claim 5 or 8,  
wherein said filter is a porous body having spaces  
connecting with one another in a three-dimensional manner,  
and said porous body moves blood from said sample supply  
unit toward said sample solution supply pathway by  
capillarity and functions to filter hemocytes based on a  
difference between flow resistances of plasma and the  
hemocytes.

10. A biosensor in accordance with claim 9,  
wherein the oxidation-reduction enzyme is cholesterol  
oxidase.

11. A biosensor in accordance with claim 10,  
wherein said reaction reagent system includes an enzyme  
having an ability of hydrolyzing cholesterol ester.

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12. A biosensor in accordance with claim 11,  
wherein the enzyme having the ability of hydrolyzing  
cholesterol ester is cholesterol esterase.

13. A biosensor in accordance with claim 11 or 12,  
wherein said reaction reagent system includes a surface  
active agent.

14. A biosensor in accordance with claim 13,  
wherein part or all of said cover member and said  
insulating base plate are transparent.